

1631  
A10

RAW SEQUENCE LISTING DATE: 02/14/2001  
PATENT APPLICATION: US/09/128,718A TIME: 17:53:33

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\02142001\I128718A.raw

3 <110> APPLICANT: Heller, Michael  
4 Tu, Eugene  
6 <120> TITLE OF INVENTION: Self-Addressable Self-Assembling Microelectronic Systems and Devices  
for  
7 Molecular Biological Analysis and Diagnostics  
9 <130> FILE REFERENCE: Nanogen 236/092  
11 <140> CURRENT APPLICATION NUMBER: 09/128,718A  
C--> 12 <141> CURRENT FILING DATE: 1998-08-03  
14 <150> PRIOR APPLICATION NUMBER: 08/725,976  
15 <151> PRIOR FILING DATE: 1996-10-04  
17 <160> NUMBER OF SEQ ID NOS: 31  
19 <170> SOFTWARE: PatentIn version 3.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 23  
23 <212> TYPE: DNA  
24 <213> ORGANISM: synthetic construct  
26 <220> FEATURE:  
27 <221> NAME/KEY: misc\_feature  
28 <222> LOCATION: (23)..(23)  
29 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
32 <400> SEQUENCE: 1  
33 gctagccct gctcatgagt ctc 23  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 20  
38 <212> TYPE: DNA  
39 <213> ORGANISM: synthetic construct  
41 <220> FEATURE:  
42 <221> NAME/KEY: misc\_feature  
43 <222> LOCATION: (20)..(20)  
44 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
47 <400> SEQUENCE: 2  
48 aaaaaaaaaaaaaaaa 20  
51 <210> SEQ ID NO: 3  
52 <211> LENGTH: 33  
53 <212> TYPE: DNA  
54 <213> ORGANISM: synthetic construct  
56 <220> FEATURE:  
57 <221> NAME/KEY: misc\_feature  
58 <222> LOCATION: (33)..(33)  
59 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
62 <400> SEQUENCE: 3  
63 ctacgtggac ctggagagga aggagactgc ctg 33  
66 <210> SEQ ID NO: 4  
67 <211> LENGTH: 19  
68 <212> TYPE: DNA  
69 <213> ORGANISM: synthetic construct  
71 <220> FEATURE:  
72 <221> NAME/KEY: misc\_feature

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73 <222> LOCATION: (19)..(19)  
74 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
77 <400> SEQUENCE: 4  
78 gagtcagca aatttggag 19  
81 <210> SEQ ID NO: 5  
82 <211> LENGTH: 19  
83 <212> TYPE: DNA  
84 <213> ORGANISM: synthetic construct  
86 <220> FEATURE:  
87 <221> NAME/KEY: misc\_feature  
88 <222> LOCATION: (19)..(19)  
89 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
92 <400> SEQUENCE: 5  
93 cgtagaactc ctcatctcc 19  
96 <210> SEQ ID NO: 6  
97 <211> LENGTH: 17  
98 <212> TYPE: DNA  
99 <213> ORGANISM: synthetic construct  
101 <220> FEATURE:  
102 <221> NAME/KEY: misc\_feature  
103 <222> LOCATION: (17)..(17)  
104 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
107 <400> SEQUENCE: 6  
108 gtcccttcc tctccag 17  
111 <210> SEQ ID NO: 7  
112 <211> LENGTH: 19  
113 <212> TYPE: DNA  
114 <213> ORGANISM: synthetic construct  
116 <220> FEATURE:  
117 <221> NAME/KEY: misc\_feature  
118 <222> LOCATION: (19)..(19)  
119 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
122 <400> SEQUENCE: 7  
123 gatgaggcagt tctacgtgg 19  
126 <210> SEQ ID NO: 8  
127 <211> LENGTH: 17  
128 <212> TYPE: DNA  
129 <213> ORGANISM: synthetic construct  
131 <220> FEATURE:  
132 <221> NAME/KEY: misc\_feature  
133 <222> LOCATION: (17)..(17)  
134 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
137 <400> SEQUENCE: 8  
138 ctggagaaga aggagac 17  
141 <210> SEQ ID NO: 9  
142 <211> LENGTH: 21  
143 <212> TYPE: DNA  
144 <213> ORGANISM: synthetic construct  
146 <220> FEATURE:

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147 <221> NAME/KEY: misc\_feature  
148 <222> LOCATION: (21)..(21)  
149 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
152 <400> SEQUENCE: 9  
153 ttccacagac ttagatttga c 21  
156 <210> SEQ ID NO: 10  
157 <211> LENGTH: 19  
158 <212> TYPE: DNA  
159 <213> ORGANISM: synthetic construct  
161 <220> FEATURE:  
162 <221> NAME/KEY: misc\_feature  
163 <222> LOCATION: (19)..(19)  
164 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
167 <400> SEQUENCE: 10  
168 ttccgcagat ttagaagat 19  
171 <210> SEQ ID NO: 11  
172 <211> LENGTH: 19  
173 <212> TYPE: DNA  
174 <213> ORGANISM: synthetic construct  
176 <220> FEATURE:  
177 <221> NAME/KEY: misc\_feature  
178 <222> LOCATION: (19)..(19)  
179 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
182 <400> SEQUENCE: 11  
183 tgtttgccctg ttctcagac 19  
186 <210> SEQ ID NO: 12  
187 <211> LENGTH: 19  
188 <212> TYPE: DNA  
189 <213> ORGANISM: synthetic construct  
191 <220> FEATURE:  
192 <221> NAME/KEY: misc\_feature  
193 <222> LOCATION: (19)..(19)  
194 <223> OTHER INFORMATION: Sequence is followed by a 3-terminal ribonucleoside uracil  
197 <400> SEQUENCE: 12  
198 catcgctgtg acaaaaacat 19  
201 <210> SEQ ID NO: 13  
202 <211> LENGTH: 20  
203 <212> TYPE: DNA  
204 <213> ORGANISM: synthetic construct  
206 <220> FEATURE:  
207 <221> NAME/KEY: misc\_feature  
208 <222> LOCATION: (1)..(1)  
209 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
212 <400> SEQUENCE: 13  
213 tgcgagctgc agtcagacat 20  
216 <210> SEQ ID NO: 14  
217 <211> LENGTH: 18  
218 <212> TYPE: DNA  
219 <213> ORGANISM: synthetic construct

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221 <220> FEATURE:  
222 <221> NAME/KEY: misc\_feature  
223 <222> LOCATION: (1)..(1)  
224 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
227 <400> SEQUENCE: 14  
228 gagagactca tgaggcagg 18  
231 <210> SEQ ID NO: 15  
232 <211> LENGTH: 18  
233 <212> TYPE: DNA  
234 <213> ORGANISM: synthetic construct  
236 <220> FEATURE:  
237 <221> NAME/KEY: misc\_feature  
238 <222> LOCATION: (1)..(1)  
239 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
242 <400> SEQUENCE: 15  
243 cctgctcatg agtctctc 18  
246 <210> SEQ ID NO: 16  
247 <211> LENGTH: 20  
248 <212> TYPE: DNA  
249 <213> ORGANISM: synthetic construct  
251 <220> FEATURE:  
252 <221> NAME/KEY: misc\_feature  
253 <222> LOCATION: (1)..(1)  
254 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
257 <400> SEQUENCE: 16  
258 tttttttttt tttttttttt 20  
261 <210> SEQ ID NO: 17  
262 <211> LENGTH: 33  
263 <212> TYPE: DNA  
264 <213> ORGANISM: synthetic construct  
266 <220> FEATURE:  
267 <221> NAME/KEY: misc\_feature  
268 <222> LOCATION: (1)..(1)  
269 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
272 <400> SEQUENCE: 17  
273 caggcagtct ctttcctctc caggccacg tag 33  
276 <210> SEQ ID NO: 18  
277 <211> LENGTH: 19  
278 <212> TYPE: DNA  
279 <213> ORGANISM: synthetic construct  
281 <220> FEATURE:  
282 <221> NAME/KEY: misc\_feature  
283 <222> LOCATION: (1)..(1)  
284 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
287 <400> SEQUENCE: 18  
288 ctccaaattt gctgaactc 19  
291 <210> SEQ ID NO: 19  
292 <211> LENGTH: 19  
293 <212> TYPE: DNA

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294 <213> ORGANISM: synthetic construct  
296 <220> FEATURE:  
297 <221> NAME/KEY: misc\_feature  
298 <222> LOCATION: (1)..(1)  
299 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
302 <400> SEQUENCE: 19  
303 ggagatgagg agttctacg 19  
306 <210> SEQ ID NO: 20  
307 <211> LENGTH: 17  
308 <212> TYPE: DNA  
309 <213> ORGANISM: synthetic construct  
311 <220> FEATURE:  
312 <221> NAME/KEY: misc\_feature  
313 <222> LOCATION: (1)..(1)  
314 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
317 <400> SEQUENCE: 20  
318 ctggagagga aggagac 17  
321 <210> SEQ ID NO: 21  
322 <211> LENGTH: 19  
323 <212> TYPE: DNA  
324 <213> ORGANISM: synthetic construct  
326 <220> FEATURE:  
327 <221> NAME/KEY: misc\_feature  
328 <222> LOCATION: (1)..(1)  
329 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
332 <400> SEQUENCE: 21  
333 ccacgtagaa ctgctcatc 19  
336 <210> SEQ ID NO: 22  
337 <211> LENGTH: 17  
338 <212> TYPE: DNA  
339 <213> ORGANISM: synthetic construct  
341 <220> FEATURE:  
342 <221> NAME/KEY: misc\_feature  
343 <222> LOCATION: (1)..(1)  
344 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
347 <400> SEQUENCE: 22  
348 gtcccttct tctccag 17  
351 <210> SEQ ID NO: 23  
352 <211> LENGTH: 21  
353 <212> TYPE: DNA  
354 <213> ORGANISM: synthetic construct  
356 <220> FEATURE:  
357 <221> NAME/KEY: misc\_feature  
358 <222> LOCATION: (1)..(1)  
359 <223> OTHER INFORMATION: "Aminolink2" modified with an amino terminus  
362 <400> SEQUENCE: 23  
363 gtcaaatcta agtctgtgga a 21  
366 <210> SEQ ID NO: 24  
367 <211> LENGTH: 19

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/128,718A

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TIME: 17:53:34

Input Set : A:\PTO.txt  
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date